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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	A	pplicant(s)				
Office Action Summary		10/760,460	м	MIYAGI ET AL.				
		Examiner	A	rt Unit				
		Marcus T. Riley		625				
Period fo	The MAILING DATE of this communication a or Reply	appears on the cover	sheet with the corr	espondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory perion are to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the may and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COI 1.136(a). In no event, however dod will apply and will expire S tute, cause the application to	MMUNICATION. ver, may a reply be timely IX (6) MONTHS from the become ABANDONED (3)	filed mailing date of this communication. 35 U.S.C. § 133).				
Status				·				
1) 又	Responsive to communication(s) filed on 11	1/19/2007.						
,		his action is non-fina	l.					
3)	· —							
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠	Claim(s) 1-21 is/are pending in the application	on.		,				
·	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.	•		,				
6)⊠	☑ Claim(s) <u>1-21</u> is/are rejected.							
,	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction and	d/or election requiren	nent.					
Applicat	ion Papers							
9)[	The specification is objected to by the Exam	iner.						
10)⊠	10)⊠ The drawing(s) filed on <u>1/21/04</u> is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	The oath or declaration is objected to by the	Examiner. Note the	attached Office Ad	tion or form PTO-152.				
Priority (	ınder 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:								
/	1.⊠ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
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Paper No(s)/Mail Date <u>attached</u> . 6) Other:								

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#### **DETAILED ACTION**

# Response to Amendment

1. This office action is responsive to applicant's remarks received on November 19, 2007. Claims 1-21 remain pending.

# Response to Arguments

2. Applicant's arguments with respect to amended claims 1, 14 and 18-21, filed on November 19, 2007 have been fully considered but they are not persuasive.

#### A: Applicant's Remarks

Matsumoto et al do not disclose or suggest determination of an image attribute of a first image signal on a pixel by pixel basis to generate an attribute signal indicating the image attribute, as defined in independent Claims 1, 14, and 18.

The deficiencies in Matsumoto et al are not overcome by Nakajima.

Accordingly, with the above-noted feature of the determination of an image attribute of a first image signal on a pixel by pixel basis not in the applied art, independent Claims 1, 14, and 18 as presently amended (and the claims dependent therefrom) are believed to patentably define over the art of record.

Conclusion, in view of the present amendment and in light of the previous discussion,

Applicants respectfully submit that the present application is in condition for allowance and

respectfully request an early and favorable action to that effect.

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### A: Examiner's Response

Matsumoto et al. does disclose or suggest determination of an image attribute of a first image signal on a pixel by pixel basis to generate an attribute signal indicating the image attribute, as defined in independent Claims 1, 14, and 18. Matsumoto '125 discloses an image processing apparatus, comprising: a communication unit configured to exchange data with an external device ("...and an output interface 78 consisting of a bidirectional interface for outputting information to an external device through communication means such as a network 79." column 6, lines 33-36); discloses an attribute determination unit that determines an image attribute of a first image signal on a pixel by pixel basis to generate an attribute signal indicating the image attribute ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21). See also ("The image of each tile is memorized in a data format of JPEG compression, single color or non compression. The JPEG compression is an image compressing method of international standard defined by ISO/IEC JTC1/SC29. The single color is a data format, in case an entire tile is substantially composed of a single color, of representing the color of the tile by a single color instead of memorizing the individual pixel values. This data format is effective particularly for an image generated by computer graphics." column 5, lines 53-61).

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Nakajima does overcome the deficiencies in Matsumoto et al. Accordingly, independent claims 1, 14, and 18 as presently amended (and the claims dependent therefrom) are not patentably defined over the art of record. Thus, in view of the present amendment and in light of the previous discussion, Examiner respectfully submits that the present application is not in condition for allowance.

### Claim Rejections - 35 USC § 101

(The previous claim18 rejection is withdrawn in light of the applicant's amendments.)

### Claim Rejections - 35 USC § 101

#### 3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

The USPTO "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" (Official Gazette notice of 22 November 2005), Annex IV, reads as follows:

Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." In this context, "functional descriptive material" consists of data structures and computer programs which impart functionality when employed as a computer component. (The definition of "data structure" is "a physical or logical relationship among data elements, designed to support specific data manipulation functions." The New IEEE Standard Dictionary of Electrical and Electronics Terms 308 (5th ed. 1993).) "Nonfunctional descriptive material" includes but is not limited to music, literary works and a compilation or mere arrangement of data.

When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare In re Lowry, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994) (claim to data structure stored on a computer readable medium that increases computer efficiency held statutory) and Warmerdam, 33 F.3d at 1360-61, 31 USPQ2d at 1759 (claim to computer having a specific data structure stored in memory held statutory product-by-process claim) with Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory).

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In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. See Lowry, 32 F.3d at 1583-84, 32 USPQ2d at 1035.

4. Claims 19-21 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. Claims 19-21 defines a computer program including computer executable instructions stored on a computer readable medium embodying functional descriptive material. However, the claim does not define a computer-readable medium or memory and is thus non-statutory for that reason (i.e., "When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized" – Guidelines Annex IV). That is, the scope of the presently claimed computer program product can range from paper on which the program is written, to a program simply contemplated and memorized by a person. The examiner suggests amending the claim to embody the program on "computer-readable medium" or equivalent in order to make the claim statutory. Any amendment to the claim should be commensurate with its corresponding disclosure.

### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1, 5-8, 10-14, 16-18, 20 &21 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Matsumoto et al. (US 6,647,125, hereinafter Matsumoto '125).

Regarding claim 1; Matsumoto '125 discloses an image processing apparatus, comprising: a communication unit configured to exchange data with an external device ("...and an output interface 78 consisting of a bidirectional interface for outputting information to an external device through communication means such as a network 79." column 6, lines 33-36); discloses an attribute determination unit that determines an image attribute of a first image signal on a pixel by pixel basis to generate an attribute signal indicating the image attribute ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21). See also ("The image of each tile is memorized in a data format of JPEG compression, single color or non compression. The JPEG compression is an image compressing method of international standard defined by ISO/IEC JTC1/SC29. The single color is a data format, in case an entire tile is substantially composed of a single color, of representing the color of the tile by a

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single color instead of memorizing the individual pixel values. This data format is effective particularly for an image generated by computer graphics." column 5, lines 53-61); an embedding unit that embeds the attribute signal in the first image signal in a predetermined format to obtain a second image signal ("A step S540 utilizes the obtained image data of the watermark information for mutual calculation with the image data of the object image in the real image space, thereby embedding the watermark information in the object image." column 8, lines 40-44); a storage unit that stores the attribute signal and one of the first image signal and the second image signal, wherein the second image signal is transmitted to the external device through the communication unit ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21).

Regarding claim 5; Matsumoto '125 discloses wherein the predetermined image processing includes undercolor removal-black generation ("A step S210 presets a color space in manual manner through the operation unit 73.A step S220 discriminates whether the color space of the entered image information coincides with the color space set in the step S210, and, in case of no coincidence, a step S230 executes the conversion of the color space." column7, lines 44-49).

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Regarding claim 6; Matsumoto '125 discloses where the predetermined image processing includes at least one of color correction, undercolor removal-black generation, gamma correction, pseudo-halftone processing, and filtering ("A step S740 defines a single color tile if all pixels of the tile are of same data (or if only a very limited number of pixels is different in value) and the data format is defined as the single color attribute 3 (step S760). Any other tile is defined as a halftone tile, with the JPEG compression attribute 2 (step S750). column 12, lines 44-49).

Regarding claim 7; Matsumoto '125 discloses where the second image signal is edited in the external device, the communication unit receives the second image signal edited from the external device, the storage unit stores the second image signal edited, the extractor extracts the attribute signal from the second image signal edited, and the image processor performs predetermined image processing on the second image signal edited, based on the attribute signal extracted ("A step S2010 discriminates whether the data format is in the attribute 2, and, if so, a step S2020 executes block encoding. If the block encoding employs orthogonal transformation and quantization as in the JPEG encoding, the image is deteriorated by the non-reversible encoding. If the step S2020 identifies that the data format is not in the attribute 2, the data format is identified as in the attribute 3 and the representative value of the tile is extracted (step S2030)." column 12, lines 59-67).

Regarding claim 8; Matsumoto '125 discloses where the attribute signal includes a first identification signal and a second identification signal that indicate different image attributes, the embedding unit embeds the first identification signal in the first image signal in a

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predetermined format to obtain a third image signal, the storage unit stores the third image signal and the second identification signal, the extractor extracts the first identification signal from the third image signal, and the image processor performs predetermined image processing on the third image signal stored, based on the second identification signal stored and the first identification signal extracted ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute, and application used for preparation; (b) second attribute information (22) General information on the object of storage, including the heater, user type, clipboard format etc.; (c) third attribute information (23) Information on the output image including the list of locked properties, image title after conversion, final editor, output image index, largest image index, largest conversion item index, largest operation index etc.; (d) Source image object (24) It consists of image information of the source image and attribute information thereof, as will be explained later; (e) Image object after conversion (25) It consists of image information and attribute information, obtained by applying a predetermined conversion process to the source image, and is structured similar to the source image object..." column 3, lines 11-29).

Regarding claim 10; Matsumoto '125 discloses a controller that controls whether to embed the attribute signal in the image signal in the embedding unit, depending on an image processing mode ("A step S660 synthesizes the image data of the object image and the

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enciphered watermark information in the real image space, thereby embedding the watermark information into the object image.." column 9, lines 8-11).

Regarding claim 11; Matsumoto '125 discloses where the storage unit stores the first image signal and the attribute signal, the embedding unit embeds the attribute signal in the first image signal stored in the storage unit in a predetermined format to obtain a third image signal, and the communication unit transmits the third image signal to the external device {("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21). See also ("A step S540 utilizes the obtained image data of the watermark information for mutual calculation with the image data of the object image in the real image space, thereby embedding the watermark information in the object image." column 8, lines 40-44), and see ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21).

Regarding claim 12; Matsumoto '125 discloses a resolution converter that converts a resolution of the attribute signal to a lower resolution ("In the example shown in FIG. 21, the

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information are switched according to the tile position with the same hierarchic layer, in such a manner that same information is not present in mutually adjacent tiles. Also the kind and amount of the inserted information are made larger for the higher resolution level and smaller for the lower resolution level." column 11, lines 4-9).

Regarding claim 13; Matsumoto '125 discloses wherein the attribute signal includes a black-character identification signal indicating a black character area. ("A step S320 detects the attribute of the image of each of the divided tiles. For example a tile containing a character or a fine line is defined as a character/fine line tile; a tile containing relatively important information such as a human face is defined as an important tile; a tile of which all pixels are of same data (or if only a very limited number of pixels is different in value) is defined as a single color tile; column 7, lines 55-61).

Regarding claim 14; Matsumoto '125 discloses an image processing method, comprising: determining an image attribute of a first image signal on a pixel by pixel basis to generate an attribute signal indicating the image attribute ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21). See also ("The image of each tile is memorized in a data format of JPEG compression, single color or non compression. The JPEG compression is an image compressing method of international standard

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defined by ISO/IEC JTC1/SC29. The single color is a data format, in case an entire tile is substantially composed of a single color, of representing the color of the tile by a single color instead of memorizing the individual pixel values. This data format is effective particularly for an image generated by computer graphics." column 5, lines 53-61); an embedding unit that embeds the attribute signal in the first image signal in a predetermined format to obtain a second image signal ("A step S540 utilizes the obtained image data of the watermark information for mutual calculation with the image data of the object image in the real image space, thereby embedding the watermark information in the object image." column 8, lines 40-44); storing the attribute signal and one of the first image signal and the second image signal, and transmitting the second image signal to an external device ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21).

Regarding claim 16; Matsumoto '125 discloses converting a resolution of the attribute signal to a lower resolution. ("In the example shown in FIG. 21, the information are switched according to the tile position with the same hierarchic layer, in such a manner that same information is not present in mutually adjacent tiles. Also the kind and amount of the inserted information are made larger for the higher resolution level and smaller for the lower resolution level." column 11, lines 4-9).

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Regarding claim 17; Matsumoto '125 discloses where the attribute signal includes a black-character identification signal indicating a black character area ("A step S320 detects the attribute of the image of each of the divided tiles. For example a tile containing a character or a fine line is defined as a character/fine line tile; a tile containing relatively important information such as a human face is defined as an important tile; a tile of which all pixels are of same data (or if only a very limited number of pixels is different in value) is defined as a single color tile; column 7, lines 55-61).

Regarding claim 18; Matsumoto '125 discloses a computer readible medium encoded with a program including computer executable instructions stored on a computer readable medium, wherein the instructions, when executed by the computer, cause the computer to perform: determining an image attribute of a first image signal on a pixel by pixel basis to generate an attribute signal indicating the image attribute; ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21). See also ("The image of each tile is memorized in a data format of JPEG compression, single color or non compression. The JPEG compression is an image compressing method of international standard defined by ISO/IEC JTC1/SC29. The single color is a data format, in case an entire tile is substantially composed of a single color, of representing the color of the tile by a single color instead of memorizing the individual pixel values. This data format is effective particularly for

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an image generated by computer graphics." column 5, lines 53-61); embedding the attribute signal in the first image signal in a predetermined format to obtain a second image signal; ("A step S540 utilizes the obtained image data of the watermark information for mutual calculation with the image data of the object image in the real image space, thereby embedding the watermark information in the object image." column 8, lines 40-44); storing the attribute signal and one of the first image signal and the second image signal; and transmitting the second image signal to an external device. ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21).

Regarding claim 20; Matsumoto '125 discloses where the instructions further cause the computer to perform converting a resolution of the attribute signal to a lower resolution. ("In the example shown in FIG. 21, the information are switched according to the tile position with the same hierarchic layer, in such a manner that same information is not present in mutually adjacent tiles. Also the kind and amount of the inserted information are made larger for the higher resolution level and smaller for the lower resolution level." column 11, lines 4-9).

Regarding claim 21; Matsumoto '125 discloses where the attribute signal includes a black-character identification signal indicating a black character area. ("A step S320 detects the attribute of the image of each of the divided tiles. For example a tile containing a character or a

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fine line is defined as a character/fine line tile; a tile containing relatively important information such as a human face is defined as an important tile; a tile of which all pixels are of same data (or if only a very limited number of pixels is different in value) is defined as a single color tile; column 7, lines 55-61).

## Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-4, 9, 15 & 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumoto '125 in combination with Nakajima (US 6,650,437, hereinafter Nakajima '437).

Regarding claim 2; Matsumoto '125 discloses an image processing apparatus, comprising: a communication unit configured to exchange data with an external device ("...and an output interface 78 consisting of a bidirectional interface for outputting information to an external device through communication means such as a network 79." column 6, lines 33-36); discloses an attribute determination unit that determines an image attribute of a first image signal to generate an attribute signal indicating the image attribute ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date

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and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21); an embedding unit that embeds the attribute signal in the first image signal in a predetermined format to obtain a second image signal ("A step S540 utilizes the obtained image data of the watermark information for mutual calculation with the image data of the object image in the real image space, thereby embedding the watermark information in the object image." column 8, lines 40-44); a storage unit that stores the attribute signal and one of the first image signal and the second image signal, wherein the second image signal is transmitted to the external device through the communication unit ("As shown in FIG. 2, each image file (20) contains following components: (a) first attribute information (21) Summary information of the object image, including the format ID, title, producer, keyword, comment, final owner, revision number (number of times of savings of the object), total editing time, date and time of final print, date and time of original preparation, date and time of final storage, thumbnail attribute and application used for preparation..." column 3, lines 11-21);

Matsumoto '125 does not expressly disclose an extractor that extracts the attribute signal from the second image signal; an image processor that performs predetermined image processing on one of the first image signal and the second image signal that are stored in the storage unit, based on at least one of the attribute signal stored and the attribute signal extracted.

Nakajima '437 discloses an extractor that extracts the attribute signal from the second image signal ("...setting means for setting an output device which is to carry out image output processing on the image data; image processing means for carrying out image processing, which

corresponds to the attributes of the image data and to the output device which is to carry out image output processing," column 2, lines 29-34); an image processor that performs predetermined image processing on one of the first image signal and the second image signal that are stored in the storage unit, based on at least one of the attribute signal stored and the attribute signal extracted ("image processing means for carrying out image processing, which corresponds to the attributes of the image data and to the output device which is to carry out image output processing, on at least one of image data temporarily stored in the storing means and image data which is read from the storing means after the supplementary information has been added thereto and the image data has been temporarily stored in the storing means..." column 2, lines 32-38);

They are combinable because they are from same field of endeavor of an image processing system ("The present invention relates to an image processing system..." Nakajima '437 at column 1, lines 7-8)

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify the image processing system as taught by Matsumoto '125 by adding an extractor that extracts the attribute signal from the second image signal and an image processor that performs predetermined image processing as taught by Nakajima '437.

The motivation for doing so would have been to provide an image processing system in which high-speed processing and high quality of output images can be realized ("...an object of the present invention is to provide an image processing system in which high-speed processing and high quality of output images can be realized." Nakajima '437 at column 2, lines 17-20)

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Therefore, it would have been obvious to combine Matsumoto '125 with Nakajima '437 to obtain the invention as specified in claim 1.

Regarding claim 3; Nakajima '437 discloses a first compressor that irreversibly compresses one of the first image signal and the second image signal to store the image signal compressed in the storage unit; discloses a second compressor that reversibly compresses the attribute signal to store the attribute signal compressed in the storage unit discloses a first decompressor that decompresses the second image signal compressed; a second decompressor that decompresses the attribute signal compressed, wherein the extractor extracts the attribute signal from the second image signal decompressed, and the image processor performs predetermined image processing on the second image signal decompressed, based on the attribute signal decompressed ("Such data is converted into FlashPix format and subjected to data compression, and is stored on an FD, MO or CD-R." column 18, lines 21-23). See also ("Thus, if the information storage medium reading device 22 is a device for reading image data from an FD or an MO or is a device for reading image data from a CD-R, the image processing engine 92 carries out image processings such as decompressing the compressed image data..." column 18, lines 24-28) and ("converting from the FlashPix format in order to obtain image data of a data sequence and a resolution (pixel density) suitable for recording an image onto the photographic printing paper 70, converting from the color space s-RGB (i.e., converting to image data of a color space suitable for recording the image onto the photographic printing paper 70 by the printer 34) and the like." column 18, lines 28-35).

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Regarding claim 4; Nakajima '437 discloses a compressor that irreversibly compresses one of the first image signal and the second image signal to store the image signal compressed in the storage unit ("Such data is converted into FlashPix format and subjected to data compression, and is stored on an FD, MO or CD-R." column 18, lines 21-23); and a decompressor that decompresses the second image signal compressed ("Thus, if the information storage medium reading device 22 is a device for reading image data from an FD or an MO or is a device for reading image data from a CD-R, the image processing engine 92 carries out image processings such as decompressing the compressed image data..." column 18, lines 24-28); wherein the extractor extracts the attribute signal from the second image signal decompressed ("converting from the FlashPix format in order to obtain image data of a data sequence and a resolution (pixel density) suitable for recording an image onto the photographic printing paper 70, converting from the color space s-RGB (i.e., converting to image data of a color space suitable for recording the image onto the photographic printing paper 70 by the printer 34) and the like." column 18, lines 28-35).

Regarding claim 9; Nakajima '437 a controller that controls whether to store the attribute signal in the storage unit, depending on an image processing mode ("The input device may be, for example, a scanner which reads images recorded on a photographic photosensitive material or some other image recording material and inputs the image data obtained by reading; a data reading device which reads and inputs image data stored on an information storage medium (a magnetic disk, an optical disk, a magneto-optical disk, a memory card, an IC card, or the like); a communications control device which receives and inputs image data which has been

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sent from another information processing equipment connected thereto by a communications line; or the like." column 2, lines 46-56).

Regarding claim 15; Nakajima '437 extracting the attribute signal from the second image signal ("...setting means for setting an output device which is to carry out image output processing on the image data; image processing means for carrying out image processing, which corresponds to the attributes of the image data and to the output device which is to carry out image output processing," column 2, lines 29-34); performing predetermined image processing on one of the first image signal and the second image signal that are stored in the storage unit, based on at least one of the attribute signal stored and the attribute signal extracted. ("image processing means for carrying out image processing, which corresponds to the attributes of the image data and to the output device which is to carry out image output processing, on at least one of image data temporarily stored in the storing means and image data which is read from the storing means after the supplementary information has been added thereto and the image data has been temporarily stored in the storing means..." column 2, lines 32-38).

Regarding claim 19; Nakajima '437 discloses where in the instructions further cause the computer to perform extracting the attribute signal from the second image signal ("...setting means for setting an output device which is to carry out image output processing on the image data; image processing means for carrying out image processing, which corresponds to the attributes of the image data and to the output device which is to carry out image output processing," column 2, lines 29-34); performing predetermined image processing on one of the first image signal and the second image signal that are stored in the storage unit, based on at least

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one of the attribute signal stored and the attribute signal extracted. ("image processing means for carrying out image processing, which corresponds to the attributes of the image data and to the output device which is to carry out image output processing, on at least one of image data temporarily stored in the storing means and image data which is read from the storing means after the supplementary information has been added thereto and the image data has been temporarily stored in the storing means..." column 2, lines 32-38).

#### Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus T. Riley whose telephone number is 571-270-1581. The examiner can normally be reached on Monday - Friday, 7:30-5:00, est.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Twyler L. Haskins can be reached on 571-272-7406. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Marcus T. Riley

Assistant Examiner

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